

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P980565

Luminaire Tested: UHBS2-1218-M-L83065-LOW-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-LOW-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

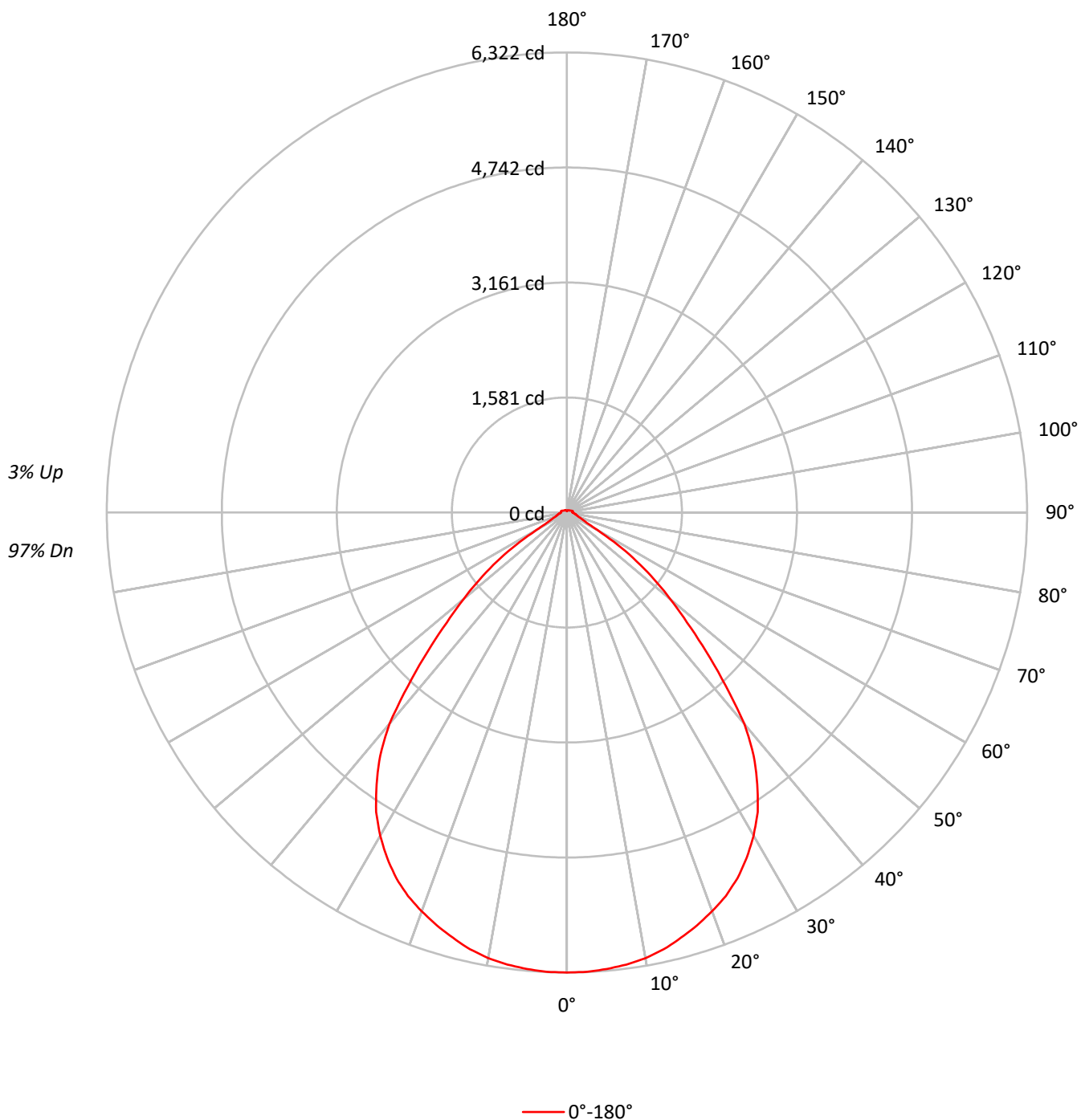
Lumens per Lamp: N/A
Luminaire Lumens: 11701.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 79
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980565

CATALOG NUMBER: UHBS2-1218-M-L83065-LOW-5000K-FRR3

Luminous Intensity Polar Plot



TEST NUMBER: P980565

CATALOG NUMBER: UHBS2-1218-M-L83065-LOW-5000K-FRR3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99
1	111	107	104	101	108	105	102	99	100	98	96		96	94	92		92
2	103	97	92	87	101	95	90	86	91	87	84		87	84	81		84
3	96	88	81	76	94	86	80	75	83	78	74		80	76	72		77
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71
5	83	73	65	60	81	72	65	59	69	63	59		67	62	58		65
6	78	67	59	54	76	66	58	53	64	57	53		62	56	52		60
7	73	61	54	48	71	60	53	48	59	52	48		57	51	47		55
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		51
9	64	52	45	40	63	51	45	40	50	44	40		49	43	39		48
10	60	48	41	37	59	48	41	37	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63731
5°	62230
10°	60727
15°	58838
20°	56910
25°	54717
30°	51561
35°	47113
40°	40620
45°	30266
50°	21961
55°	14826
60°	6595
65°	3734
70°	2873
75°	2641
80°	2620
85°	2664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30266 cd/sqm

TEST NUMBER: P980565

CATALOG NUMBER: UHBS2-1218-M-L83065-LOW-5000K-FRR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.6	5.1
10°-20°	1707.4	14.6
20°-30°	2545.4	21.8
30°-40°	2828.7	24.2
40°-50°	2107.9	18.0
50°-60°	1038.9	8.9
60°-70°	267.6	2.3
70°-80°	147.1	1.3
80°-90°	104.1	0.9
90°-100°	88.5	0.8
100°-110°	83.4	0.7
110°-120°	60.1	0.5
120°-130°	42.7	0.4
130°-140°	32.1	0.3
140°-150°	23.3	0.2
150°-160°	15.1	0.1
160°-170°	7.7	0.1
170°-180°	2.1	0.0
0°-30°	4851.4	41.5
0°-40°	7680.2	65.6
0°-60°	10827.0	92.5
0°-90°	11345.9	97.0
90°-120°	232.0	2.0
90°-150°	330.2	2.8
90°-180°	355.0	3.0
0°-180°	11701.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6322	
5°	6297	599
15°	6050	1707
25°	5546	2545
35°	4560	2829
45°	2703	2108
55°	1172	1039
65°	248	268
75°	137	147
85°	95	82
90°	78	44
95°	81	67
105°	79	83
115°	60	60
125°	47	43
135°	41	32
145°	37	23
155°	33	15
165°	27	8
175°	21	2
180°	21	

TEST NUMBER: P980565

CATALOG NUMBER: UHBS2-1218-M-L83065-LOW-5000K-FRR3

CANDELA DISTRIBUTION (FULL):

0°	
0°	6322.2
2.5°	6317.6
5°	6296.7
7.5°	6265.6
10°	6218.2
12.5°	6148.8
15°	6050.3
17.5°	5948.1
20°	5832.2
22.5°	5703.6
25°	5545.7
27.5°	5350.5
30°	5127.8
32.5°	4878.7
35°	4560.3
37.5°	4215.4
40°	3793.9
42.5°	3226.3
45°	2702.6
47.5°	2240.0
50°	1855.9
52.5°	1511.9
55°	1172.5
57.5°	831.2
60°	481.8
62.5°	306.6
65°	248.2
67.5°	204.4
70°	170.6
72.5°	152.4
75°	136.9
77.5°	125.0
80°	115.0
82.5°	104.9
85°	94.9
87.5°	85.8
90°	77.6
92.5°	79.4
95°	81.2
97.5°	83.0
100°	83.9
102.5°	83.0
105°	79.4
107.5°	75.7
110°	70.3

TEST NUMBER: P980565

CATALOG NUMBER: UHBS2-1218-M-L83065-LOW-5000K-FRR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	64.8
115°	60.2
117.5°	55.7
120°	52.0
122.5°	49.3
125°	47.4
127.5°	45.6
130°	43.8
132.5°	42.9
135°	41.1
137.5°	40.1
140°	39.2
142.5°	38.3
145°	37.4
147.5°	35.6
150°	34.7
152.5°	33.8
155°	32.8
157.5°	31.0
160°	30.1
162.5°	28.3
165°	27.4
167.5°	25.5
170°	23.7
172.5°	21.9
175°	21.0
177.5°	21.9
180°	21.0

(END OF REPORT)